

contacting the first sorbate, the second sorbate, and the sorbent in a first stage with a stripping fluid having a first temperature sufficient to separate and release a portion of the first sorbate in a vapor phase from the second sorbate and the sorbent;

combusting the first sorbate;

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heating the second sorbate and the sorbent to a second temperature higher than the first temperature to separate at least a portion of the second sorbate in a vapor phase from the sorbent;

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condensing the second sorbate to change the second sorbate from the vapor phase to the liquid phase; and

selling the condensed second sorbate to offset the costs of the process.

Please amend Claim 16 as follows:

16. Amended A method for removing a first sorbate and a second sorbate from a sorbent, the first sorbate in combination with the sorbent having a first desorption activation energy and the second sorbate combination with the sorbent having a second desorption activation energy higher than the first desorption activation energy, the method comprising the steps of:

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contacting the first sorbate, the second sorbate, and the sorbent in a desorption chamber with a fluid having a first temperature to separate the first sorbate in a vapor phase from the second sorbate and the sorbent;

disposing of the first sorbate in the vapor phase;

following the contacting step, heating the second sorbate and the sorbent in the desorption chamber to a second temperature sufficient to separate the second sorbate in a vapor phase from the sorbent

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condensing the second sorbate in the vapor phase to change the second sorbate to the liquid phase; and

selling the condensed second sorbate to offset the costs of the process.

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Please cancel Claims 19 –24.

Please add the following new Claim 25.

Claim 25 (New) A process for drying wood, comprising the steps of:
heating the wood;
during the heating step, driving off VOCs in the form of a first sorbate having a first boiling point and a second sorbate having a second boiling point higher than the first boiling point;

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sorbing the first and second sorbates onto a resin-based sorbent;

in a first-stage, exposing the sorbent and the first and second sorbates in a first volume to a temperature greater than the first boiling point to release the first sorbate from the sorbent;

in a second stage, exposing the sorbent and at least the second sorbate in a second volume less than the first volume to microwave energy sufficient to heat the second sorbate to a temperature greater than the second boiling point to release the second sorbate from the sorbent;

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cont.

condensing at least one of the first sorbate released from the first stage and the second sorbate released from the second stage; and

selling the condensed sorbate to offset the cost of the process.
